INDEX TO VOLUME 91, 1979

By Nancy J. Flood, Gary R. Bortolotti and Peter Thompson

This index includes references to genera, species, authors and key words or terms. In addition to avian species, references are made to the scientific names of all vertebrates mentioned within the volume. Common names are as they appeared in the volume. Reference is made to books reviewed, reviewers and announcements as they appeared in the volume.

Accipiter cooperii, 104
  gentilis, 104
  striatus, 104
Actitus macularia, 624
Adelomyia melanogenys, 185
Aethia cristatella, 413, 416, 417
  pusilla, 413, 417
Afton, Alan D., Time budget of breeding Northern Shovelers, 42–49
age determination
  Molothrus ater, 464
Agelaius phoeniceus, 78, 83, 85, 91, 94, 118, 121, 122, 143–145, 426–433, 434–440, 464, 566, 567
  tricolor, 434, 437, 438
Aglaiocercus kingi, 185
Ainley, David G., see Bekoff, Marc, ——— and Anne Bekoff
Alcids, 298
Alopex lagopus, 414, 611
Alsop, F. J., Mantids selected as prey by Blue Grosbeaks, 131–132
Amazilia amabilis, 320
Ammodramus savannarum, 592–598
Ammodytes hexapterus, 415
Anas acuta, 46
  clypeata, 42–49, 367–370
  cyanoptera, 367
  discors, 367–370
  platalea, 368
  platyrhynchos, 267, 280, 282, 283
  rubripes, 280
Anderson, T. R., Experimental synchronization of sparrow reproduction, 317–319
Anisognathus lacrymosus, 147
Ankney, C. Davison, see Ryder, John P. and ———
Anolis sp., 9
Anser albifrons, 267, 628–629
  anser, 266
  caerulescens caerulescens, 615, 628
Anthropoides paradisea, 384–399
  virgo, 384–399
Antilocapra americana, 75
Aphelocoma nana, 199
  viridicyana, 198
Aquila rapax, 463
Aracari, Chestnut-eared, see Pteroglossus castanotis
  Collared, see P. torquatus
Ardea cinerea, 630
  herodias, 630–631
Arenaria interpres, 133–135, 628
Asio flammeus, 202, 208, 565, 567
  otus, 50–61, 72–77, 567
Atkins, R. J., see Smith, J. P. and ———
Atlapetes, 147
Auklet, Cassin's, see Ptychoramphus aleuticus
  Crested, see Aethia cristatella
  Least, see Aethia pusilla
  Parakeet, see Cyclorrhynchus psitacula
Auriparus flaviceps, 123
Avery, Michael L., Impacts of transmission lines on birds in flight, reviewed, 158
Avery, Michael L., Paul F. Springer and Nancy S. Dailey, Avian mortality at man-made structures: an annotated bibliography, reviewed, 159
Avocet, American, see Recurvirostra americana
awards and grants
  Aaron M. Bagg Student Membership Awards, 347, 478
  Eastern Bird Banding Association Research Grants, 287
  Edwards Prize, 489

INDEX TO VOLUME 91, 1979

By Nancy J. Flood, Gary R. Bortolotti and Peter Thompson

This index includes references to genera, species, authors and key words or terms. In addition to avian species, references are made to the scientific names of all vertebrates mentioned within the volume. Common names are as they appeared in the volume. Reference is made to books reviewed, reviewers and announcements as they appeared in the volume.

Accipiter cooperii, 104
  gentilis, 104
  striatus, 104
Actitus macularia, 624
Adelomyia melanogenys, 185
Aethia cristatella, 413, 416, 417
  pusilla, 413, 417
Afton, Alan D., Time budget of breeding Northern Shovelers, 42–49
age determination
  Molothrus ater, 464
Agelaius phoeniceus, 78, 83, 85, 91, 94, 118, 121, 122, 143–145, 426–433, 434–440, 464, 566, 567
  tricolor, 434, 437, 438
Aglaiocercus kingi, 185
Ainley, David G., see Bekoff, Marc, ——— and Anne Bekoff
Alcids, 298
Alopex lagopus, 414, 611
Alsop, F. J., Mantids selected as prey by Blue Grosbeaks, 131–132
Amazilia amabilis, 320
Ammodramus savannarum, 592–598
Ammodytes hexapterus, 415
Anas acuta, 46
  clypeata, 42–49, 367–370
  cyanoptera, 367
  discors, 367–370
  platalea, 368
  platyrhynchos, 267, 280, 282, 283
  rubripes, 280
Anderson, T. R., Experimental synchronization of sparrow reproduction, 317–319
Anisognathus lacrymosus, 147
Ankney, C. Davison, see Ryder, John P. and ———
Anolis sp., 9
Anser albifrons, 267, 628–629
  anser, 266
  caerulescens caerulescens, 615, 628
Anthropoides paradisea, 384–399
  virgo, 384–399
Antilocapra americana, 75
Aphelocoma nana, 199
  viridicyana, 198
Aquila rapax, 463
Aracari, Chestnut-eared, see Pteroglossus castanotis
  Collared, see P. torquatus
Ardea cinerea, 630
  herodias, 630–631
Arenaria interpres, 133–135, 628
Asio flammeus, 202, 208, 565, 567
  otus, 50–61, 72–77, 567
Atkins, R. J., see Smith, J. P. and ———
Atlapetes, 147
Auklet, Cassin's, see Ptychoramphus aleuticus
  Crested, see Aethia cristatella
  Least, see Aethia pusilla
  Parakeet, see Cyclorrhynchus psitacula
Auriparus flaviceps, 123
Avery, Michael L., Impacts of transmission lines on birds in flight, reviewed, 158
Avery, Michael L., Paul F. Springer and Nancy S. Dailey, Avian mortality at man-made structures: an annotated bibliography, reviewed, 159
Avocet, American, see Recurvirostra americana
awards and grants
  Aaron M. Bagg Student Membership Awards, 347, 478
  Eastern Bird Banding Association Research Grants, 287
  Edwards Prize, 489

Louis Agassiz Fuertes Award, 383, 489
Margaret Morse Nice Award, 383, 489
Paul A. Stewart Award, 478, 489
Josselyn Van Tyne Award, 347
Alexander Wetmore Award, 347
Alexander Wilson Prize, 489
Aythya americana, 323, 599
valisineria, 279–287, 323, 599
Bankwitz, Kenneth G. and William L. Thompson, Song characteristics of the Yellow Warbler, 533–550
Baptista, Luis F., see Wells, Shirley and ———
Barbets, Crested, see Trachyphonus vaillantii
Basileuterus luteoviridis, 147
Batzli, George D., see Williams, Joseph B. and ———
behavior
breeding
Buteo lineatus, 104–117
Celeus undatus, 338
Coccyzius americanus, 154–155
Larus marinus, 575–582
Laterallus spilonotus, 202–221
Passer domesticus and P. montanus, 317–319
Pedioecetes phasianellus, 150
Phalacrocorax carbo, 461–463
Picoides borealis, 331
comfort
Pygoscelis adeliae, 255–270
food related
Ardea herodias, 630–631
Bubulcus ibis, 471–472
Carduelis flammea, 621–623
Celeus castaneus, 149–152
Celeus undatus, 338–344
Cyanocorax beecheii, 1–15
Cynomys ludovicianus, 330
Dendroica striata, 234–243
Larus delawarensis, 623–625
Larus glaucescens, 412–419
Larus marinus, 565–582
Laterallus spilonotis, 202–221
Limnodromus griseus, 271–278
Picoides stricklandii, 244–254
Steatornis caripensis, 458
Stercorarius pomarinus, 329
social (including agonistics, display, etc.)
Calypte anna, 524–532
Catoptrophorus semipalmatus, 551–574
Cyanocorax beecheii, 1–15
Junco hyemalis, 371–383
Laterallus spilonotis, 202–221
Limnodromus griseus, 271–278
Progne subis, 583–591
wintering
Carduelis flammea, 621–623
Junco hyemalis, 371–383
Parus cristatus, 222–223
Parus montanus, 222–223
Beissinger, S. R., see Osborne, David R. and ———
Bekoff, Anne, see Bekoff, Marc, David G. Ainley and ———
Bekoff, Marc, David G. Ainley and Anne Bekoff, The ontogeny of comfort behavior in Adelie Penguins, 255–270
Below, Theodore H., First reports of pellet ejection in 11 species, 626–628
Berger, A. J., see van Riper, C., III, S. G. van Riper and ———
Bertin, R. I. and P. A. Wilzbach, Sexual differences in feeding territoriality of the Crowned Woodnymph, 319–321
Blackbird, Red-winged, see Agelaius phoeniceus
Rusty, see Euphagus carolinus
Tricolored, see Agelaius tricolor
Blem, C. R., Predation of black rat snakes on a Bank Swallow colony, 135–137
Blodgett, K. D. and R. M. Zammuto, Chimney Swift nest found in hollow tree, 154
Blokpoel, Hans and Gerard T. Haymes, Small mammals and birds as food items of Ring-billed Gulls on the Lower Great Lakes, 623–625
Blue Bird, Eastern, see Sialia sialis
Blus, Lawrence J. and Richard M. Prouty, Organochlorine pollutants and population status of Least Terns in South Carolina, 62–71
Boag, David A., review by, 360–361
Bobwhite, see Colinus virginianus
Boissonneaua matthewsii, 185
Bolen, Eric G., Blue-winged × Cinnamon teal hybrid from Oklahoma, 367–370
bombycilla cedrorum, 91, 94, 310

Bowman, Margaret Coon, Species index to Florida bird records in Audubon Field Notes and American Birds, Volumes, 1947–1976, reviewed, 159
Branta canadensis, 288, 296, 297, 323, 613–615, 628–629
Bray, Olin E., Willis L. Royall, Jr., Joseph L. Guariro and Richard E. Johnson, Activities of radio-equipped Common Grackles during fall migration, 78–87
breeding biology, general
  Asio otus, 50–61
  Buteo lineatus, 104–117
  Falco sparverius, 50–61
  Fulica americana, 599–607
  Gavia arctica pacifica, 608–617
  Mycteria americana, 512–523
  Phalacrocorax carbo, 461–463
  Progne subis, 583–591
  Rostrhamus sociabilis, 495–511
  Sayornis phoebe, 441–454
  see also behavior, breeding
Brooks, D. J., see McGillivray, W. B. and ———
Brown, Charles R., Territoriality in the Purple Martin, 583–591
Bruun, Bertel, The Larousse guide to birds of Britain and Europe, reviewed, 354–355
Bubo virginianus, 89, 104, 106, 133, 566
Bubulcus ibis, 471–472
Buckner, James L., see Landers, J. Larry and ———
Budde, Paul, see Payne, Robert B. and ———
Bulbul, Red-vented, see Pycnonotus cafer
  Red-whiskered, see P. jocosus
Bullfinch, see Pyrrhula pyrrhula
bullhead, see Ictalurus melas
Bunting, Lark, see Calamospiza melanocorys
Burtt, E. H. and J. P. Hailman, Effect of food availability on leaf scratching by the Rufous-sided Towhee: test of a model, 123–126
Bushtit, Common, see Psaltriparus minimus
Buteo jamaicensis, 54, 89, 104, 190
  lineatus, 89, 104–117
  nitidus, 194
  platypterus, 192
  regalis, 330–331
  swainsoni, 565
Calamospiza melancorys, 346
Calypte anna, 524–532
  costae, 531
Calidris alba, 134, 277
  canutus, 559
Campephilus guatemalensis, 22, 341
  melanoleucos, 22, 24, 341, 343
Campethera cailliautii, 24
  nivosa, 24
  nubica, 19
Canis latrans, 132
Canvasback, see Aytha valisineria
Cardinal, see Cardinalis cardinalis
Cardinalis cardinalis, 91, 94, 96, 98, 118, 119, 121, 307, 310, 464
Carduelis flammea, 621–623
  pinus, 622, 623
  tristis, 95, 118, 119, 310, 312, 434, 437
Caretta caretta, 66
Carpodacus purpureus, 91, 95, 237
Catamblyrhynchus diadema, 145–158
Catbird, Gray, see Dumetella carolinensis
Cathartes aura, 89, 104, 148–149
Catharus guttata, 93, 96, 98
  minimus, 237
  ustulatus, 237
Catoptrophorus semipalmatus, 551–574, 626–628
Causey, Keith, George Horton, John Roboski, Randall Johnson and Philip Mason, American Woodcock hatched in Alabama killed in Michigan, 463–464
Celeus brachyurus, 24, 249, 338
  castaneus, 149–150
  elegans, 338, 344
  lugubris, 24, 338
  undatus, 338–344
censusing
  in Illinois, 88–103
  in West Virginia, 301–316
  Mycteria americana, 512–523
  Rostrhamus sociabilis, 495–511
  Steatornis caripensis, 457–458
Cepphus columbus, 416
Certhia familiaris, 93, 96, 126–131, 237, 307, 400–411
Chaetura pelagica, 154

Charadrius vociferus, 330, 560
wilsonia, 63
Chat, Yellow-breasted, see Icteria virens
Chesser, R. K., Opportunistic feeding on man-killed prey by Ferruginous Hawks, 330–331
Chickadee, Black-capped, see Parus atricapillus
Carolina, see Parus carolinensis
Mexican, see Parus sclateri
chicken, see Gallus sp.
Chilgren, J. D., Drowning of grassland birds in stock tanks, 345–346
chipmunk, eastern, see Tamias striata
least, see Eutamias minimus
Chipping Sparrow, see Spizella passerina
Cinnycerthia, 147
Circus aeruginosus, 463
buffoni, 470–471
cyaneus, 72–77, 565, 567
Cissilopha, 1, 10, 12, 187–201
Clangula hyemalis, 288–300
Clark, David B., see Franklin, Alan B., Deborah A. Clark and ———
Clark, Deborah A., see Franklin, Alan B., ——— and David B.
Clark, W. D. and J. R. Karr, Effects of highways on Red-winged Blackbird and Horned Lark populations, 143–145
Clench, Mary H. and Robert C. Leberman, Weights of 151 species of Pennsylvania birds analyzed by month, age, and sex, 162
Clethrionomys gapperi, 110
Clupea harengus, 415
pallasii, 424
Coccyzus americanus, 154–155, 311
Coeligena coeligena, 185
torquata, 185
Colaptes auratus, 17, 18, 25, 54, 55, 92, 96, 149, 310, 313, 335
rupicola, 26
Colibri coruscans, 185
thalassinus, 185
Colinus virginianus, 345
Collias, Nicholas E. and Elsie C. Collias, review by, 474–476
Columba livia, 89
Columbina passerina, 467–468
Conirostrum sitticolor, 146–147
Conner, Richard N., Jerry W. Via and Irvine D. Prather, Effects of pine-oak clearcutting on winter and breeding birds in southwestern Virginia, 301–316
conservation
Agelaius phoeniceus, 143–145
Cyanocorax beecheii, 1–15
Eremophila alpestris, 143–145
Coot, American, see Fulica americana
European, see Fulica atra
Coragyps atrata, 89
Corcorax melanorhamphus, 206
Cormorant, Great, see Phalacrocorax carbo
Red Faced, see P. urile
Corvus brachyrhynchos, 92, 133, 307, 311, 566, 567
corax, 566
cryptoleucus, 331
imparatus, 12, 196
rhipidurus, 463
sinaloae, 195, 196
cottontail, eastern, see Sylvilagus floridanus
Coturnix coturnix, 118, 121, 280
Counsilman, J. J., Bird Behaviour—new journal, reviewed, 158
Cowbird, Bay-winged, see Molothrus badius
Bronzed, see Molothrus aeneus
Brown-headed, see Molothrus ater
Screaming, see Molothrus rufoaxillaris
Shining, see Molothrus bonariensis
coyote, see Canis latrans
Craig, Timothy H. and Charles M. Trost, The biology and nesting density of breeding American Kestrels and Long-eared Owls on the Big Lost River in southeastern Idaho, 50–61
Crake, Paint-billed, see Neocrex erythrops
Crane, Demoiselle, see Anthropoides virgo
Gray Crowned, see Balearica regulorum
Sandhill, see Grus canadensis
Stanley, see Anthropoides paradisea
Wattled, see Bugeranus carunculatus
West African Crowned, see Balearica pavonina
see also Gruidae for Grus spp.

Craven, Scott R. and Ronald L. Westemeier, Probable Canada Goose × White-fronted Goose hybrids, 628–629
Creeper, Brown, see Certhia familiaris
Crossbill, White-winged, see Loxia leucoptera
Crow, Common, see Corvus brachyrhynchos
Mexican, see Corvus imparatus
Sinaloa, see Corvus sinaloae
Cuckoo, Yellow-billed, see Coccyzus americanus
Curlew, Eskimo, see Numenius borealis
European, see Numenius arquatus
Long-billed, see Numenius americanus
Cyanocorax affinis, 198
beecheii, 1–15, 187–201
caeruleus, 199
cayanus, 198
chrysops, 198
cyanomelas, 199
dickeyi, 198
formosa, 12, 198
melanocyanea, 1, 10, 11, 187–201
morio, 199
sanblasiana, 1, 10, 11, 187–201
yucatanica, 1, 10, 11, 187–201
Cyanocorax spp., 198–199
Cyanositta cristata, 91, 92, 100, 198, 230, 307, 310, 451, 470
Cyclorrhynchus psittacula, 416
Cynomys ludovicianus, 330–331
Dailey, N. S., see Avery, M. L., P. F. Springer and ———
Davies, Nicholas B., see Krebs, John R. and ———
deer, white-tailed, see Odocoileus virginianus
Dendragapus obscurus, 230
Dendrocolaptes, 338
Dendroica caerulescens, 237
castanea, 234, 241, 242
coronata, 91, 94, 97, 98, 234, 237, 241, 307, 470
discolor, 310, 312, 313
dominica, 253
fusca, 234, 237
graciae, 253
magnolia, 234, 237, 547
pensylvanica, 310, 547
petechia, 464, 533–550
pinus, 311, 312, 313
striata, 234–243
tigrina, 234
virens, 234, 237, 548
Dendropicos namaquus, 19
xantholophus, 24
Denson, R. D., Owl predation on mobbing crows, 133
Didelphis virginiana, 328
diet, see behavior, food-related
Dinopium rafflesii, 24
Dipodomys ordii, 55, 58, 59, 73
Divoky, G. J., K. L. Oakley and H. R. Huber, Pomarine Jaegar preys on adult Black-legged Kittiwake, 329
Dodge, Wendell E., see Portnoy, John W. and ———
Dove, Ground, see Columbina passerina
Mourning, see Zenaida macroura
Ringed Turtle, see Streptopelia risoria
Rock, see Columba livia
Dowitcher, Short-billed, see Limnodromus griseus
Drieslein, R. L. and A. J. Bennett, Red fox predation on Greater Sandhill Crane chicks, 132–133
Dryocopus javensis, 20, 24
lineatus, 20, 22, 24, 343
martius, 337
pileatus, 20, 2[illegible] 91, 92, 307, 311, 313, 314, 335, 337, 343
Dumetella carolinensis, 119, 310
Dunn, Erica H., Age of effective homeothermy in nestling Tree Swallows according to brood size, 455–457
Eagle, African Fish, see Haliaeetus vocifer
Bald, see Haliaeetus leucocephalus
Tawny, see Aquila rapax
Eaton, S. W., Notes on the reproductive behavior of the Yellow-billed Cuckoo, 154–155
eggshell thinning
Lanius ludovicianus, 468
Egret, Cattle, see Bubulcus ibis
Snowy, see Egretta thula
Egretta thula, 521, 628
Eider, Common, see Somateria mollissima
Elanoides forficatus, 148–149
Elapne obsoleta, 121, 135–137, 451
Ellarson, Robert S., see Peterson, Steven R. and ———

Elliott, Hugh, see Hannock, James and ———
Empidonax flaviventris, 237
virescens, 29–41, 311
Enhydra lutris, 417
Eremophila alpestris, 143–145
Eriocnemis nigrivestis, 177
Eshbaugh, B. K. and W. H. Eshbaugh, Removal of fur from a live racoon by Tufted Titmouse, 328
Eshbaugh, W. H., see Eshbaugh, B. K. and ———
Eudocimus albus, 519, 626–628
eulachons, see Thaleichthys pacificus
Eumetopias jubata, 414
Euphagus carolinus, 94
Eutamius minimus, 55, 73
Fairchild, W. B., see Hammond, K. A., G. Macinko, and ———
Falco mexicanus, 345
peregrinus, 416, 463
sparverius, 50–61, 72–77, 345, 625–626
Falcon, Collared Forest, see Micrastur semitorquatus
Peregrine, see Falco peregrinus
Prairie, see Falco mexicanus
fat, premigratory deposition
Falco sparverius, 625–626
Ficedula spp., 16
Finch, Plush-capped, see Catamblyrhynchus diadema
Purple, see Carpodacus purpureus
fish, rock, see Sebastes sp.
Fitzpatrick, John W., review by, 632–634
Fitzpatrick, John W., David E. Willard and John W. Terborgh, A new species of hummingbird from Peru, 177–186
Flicker, Common, see Colaptes auratus
Northern, see Colaptes auratus
Yellow-shafted, see Colaptes auratus
Flycatcher, Acadian, see Empidonax virescens
crested flycatcher, see Myiarchus sp.
Great Crested, see Myiarchus crinitus
Yellow-bellied, see Empidonax flaviventris
foraging, see behavior, food-related
fostering
in Agelaius phoeniceus, 434–440
fox, red, see Vulpes fulva
Arctic, see Alopex lagopus
Fraga, R. M., Differences between nestlings and fledglings of Screaming and Bay-winged cowbirds, 151–154
Franklin, Alan B., Deborah A. Clark and David B. Clark, Ecology and behavior of the Galapagos Rail, 202–221
Fratercula corniculata, 415
Friedmann, Herbert, review by, 473–474
frog, leopard, see Rana pipiens
Fulica americana, 75, 599–607
atra, 602
Gallus gallus spadiceus, 266
Gallus sp., 438, 618
Gavia arctica pacifica, 608–617
Geochelidon nilotica, 63, 64, 66, 135
Geococcyx californianus, 155
Geocolaptes, 25
geographic variation
Junco hyemalis, 371–383
Geomys bursarius, 630
Geothlypis trichas, 547
Gessaman, James, A., Premigratory fat in the American Kestrel, 625–626
Gibson, Daniel D., see Kessel, Brina and ———
Glaucidium sp., 16
Gnatcatcher, Blue-gray, see Polioptila caerulea
Godwit, Black-tailed, see Limosa limosa
Goldfinch, American, see Spinus tristis
also Carduelis tristis
Goose, Canada, see Branta canadensis
Greylag, see Anser anser
Lesser Snow, see Anser caerulescens caerulescens
White-fronted, see Anser albifrons
Goshawk, see Accipiter gentilis
Graber, Jean W. and Richard R. Graber, Severe winter weather and bird populations in southern Illinois, 88–103
Graber, Richard R., see Graber, Jean W. and ———
Grackle, Common, see Quiscalus quiscula
greenling, rock, see Hexagrammos lagocephalus
Greenshank, see Tringa nebularia
Grouse, Black, see Lyrurus tetrix
Blue, see Dendragapus obscurus

Red, see Lagopus lagopus
Sharp-tailed, see Pedioecetes phasianellus
growth
of Molothrus ater nestlings, 464
Grubb, T. C., Olfactory guidance of Leach's Storm Petrel to the breeding island, 141–143
Gruidae, 384–399
Grus canadensis, 132–133, 137–141, 323, 384, 399
Grus spp., 384–399
Guarina, Joseph L., see Bray, Olin E., et al.
guilds
of bark foragers, 400–411
of grassland sparrows, 592–598
Guillemot, Pigeon, see Cepphus columbus
Guiraca caerula, 131–132
Gull, Glaucous, see Larus hyperboreus
Glaucous-winged, see Larus glaucescens
Great Black-backed, see Larus marinus
Herring, see Larus argentatus
Laughing, see Larus atricilla
Lesser Black-backed, see Larus fuscus
Ring-billed, see Larus delawarensis
habitat
alteration
by clearcutting, 301–316
effect on the Everglade Kite, 495–511
effect on Red-winged Blackbirds and Horned Larks, 143–144
effect of Wood Storks, 512–523
selection
Columbina passerina, 467
Dendroica striata, 234–243
Rostrhamus sociabilis, 495–511
see also breeding biology
partitioning
by bark foraging guild, 400–411
by grassland sparrows, 592–598
Hailman, J. P. see Burtt, E. H. and ———
Halford, Douglas K., see Craig, Timothy H., ——— and O. Doyle Markham
Haliaeetus leucocephalus, 104, 283
vocifer, 463
Hammond, K. A., G. Macinko and W. B. Fairchild, eds., Sourcebook on the environment, reviewed, 357–358
Hannock, James and Hugh Elliott, Herons of the world, reviewed, 348–354
Hardy, J. W., see Raitt, Ralph J. and ———
Hardy, J. W., Vocal repertoire and its possible evolution in the blue and black jays, 187–201
Harlow, R. F., see Lennartz, M. R. and ———
Harrier, Long-winged, see Circus buffoni
Marsh, see Circus aeruginosus
Harrison, C. J. O., ed., Bird families of the world, reviewed, 359–360
Hawk, Broad-winged, see Buteo platypterus
Cooper's, see Accipiter cooperii
Ferruginous, see Buteo regalis
Gray, see Buteo nitidus
Marsh, see Circus cyaneus
Red-shouldered, see Buteo lineatus
Red-tailed, see Buteo jamaicensis
Sharp-shinned, see Accipiter striatus
Haymes, Gerard T., see Blokpoel, Hans and ———
Heliangelus regalis, 177–186
Heliangelus spp., 180–181
Hemilepidotus hemilepidotus, 418
Hemispingus atropileus, 147
frontalis, 147
reyi, 147
Hemispingus, Grey-capped, see Hemispingus reyi
Henicorhina leucoptera, 184
Heron, Great Blue, see Ardea herodias
Little Blue, see Hydranassa caerulea
herring, Pacific, see Clupea harengus
also Clupea pallasii
Hexagrammos lagocephalus, 415
Hilty, S. L., T. A. Parker and J. Silliman, Observations on Plush-capped Finches in the Andes with a description of the juvenal and immature plumages, 145–148
Himantopus mexicanus, 560, 565, 566, 568
Hirundo rustica, 118, 120, 450
Holcomb, Larry, C., Response to foster nestlings by Red-winged Blackbirds at different reproductive stages, 434–440
Horton, George, see Causey, Keith, et al.
Hubbard, John P., Revised check-list of the birds of New Mexico, reviewed, 162
Huber, H. R., see Divoky, G. J., K. L. Oakley and ———

Hummingbird, Blue-chested, see Amazilia amabilis
Booted Racket-tail, see Ocreatus underwoodii
Bronzy Inca, see Coeligena coeligena
Chestnut-breasted Coronet, see Boissonneaua matthewsii
Collared Inca, see Coeligena torquata
Green-fronted Lancebill, see Doryfera ludoviciae
Green-tailed Trainbearer, see Lesbia nuna
Green Violetear, see Colibri thalassinus
Long-tailed Hermit, see Phaethornis superciliosus
Long-tailed Sylph, see Aglaiocercus kingi
Sparkling Violetear, see Colibri coruscans
Speckled, see Adelomyia melanogenys
Hundertmark, Charles A., Breeding birds of Elephant Butte Marsh, reviewed, 162
hybridization
Anas discors × Anas cyanoptera, 367–370
Branta canadensis × Anser albifrons, 628–629
Calypte anna × Selasphorus sasin, 624–632
Hydranassa caerulea, 521
Hylocichla mustelina, 311, 448
Ibis, White, see Eudocimus albus
Ictalurus melas, 630
Icteria virens, 119, 230, 310, 312, 313
Icterus galbula, 118, 120
Iridoprocne bicolor, 16, 17, 455–457
Iridosornis reinhardti, 147
rufivertex, 147
Ixoreus naevius, 375
Jacana jacana, 470–471
Jacana, Wattled, see Jacana jacana
jackrabbit, black-tailed, see Lepus californicus
Jaeger, Parasitic, see Stercorarius parasiticus
Pomarine, see Stercorarius pomarinus
Jay, Azure, see Cyanocorax caeruleus
Beechey, see Cyanocorax beecheii
Black-chested, see Cyanocorax melanocyanea
Blue, see Cyanocitta cristata
Brown, see Cyanocorax morio
Bushy-crested, see Cyanocorax affinis
Cayenne, see Cyanocorax cayanus
Magpie, see Cyanocorax formosa
Plush-crested, see Cyanocorax chrysops
Purplish, see Cyanocorax cyanomelas
San Blas, see Cyanocorax sanblasiana
Tufted, see Cyanocorax dickeyi
Yucatan, see Cyanocorax yucatanica
Jehl, Joseph R., Jr., see Rumboll, Maurice A. E. and ———
Johnson, Randall, see Causey, Keith, et al.
Johns, Richard E., see Bray, Olin, et al.
Junco, Dark-eyed, see Junco hyemalis
Slate-colored, see Junco hyemalis
Mexican, see Junco phaeonotus
Junco hyemalis, 91, 95, 96, 98, 123, 237, 241, 242, 297, 307, 371–383
Junco phaeonotus, 253, 375
Jungle Fowl, Burmese, see Gallus gallus spadiceus
Jynx ruficollis, 18, 19
kangaroo rat, Ord's, see Dipodomys ordii
Keith, Stuart, review by, 356–357
Kendeigh, S. Charles, see Pinowski, Jan and ———
Kepler, Angela Kay, Comparative study of todies (Todidae): with emphasis on the Puerto Rican Tody, Todus mexicanus, reviewed, 358–359
Kessel, Brina and Daniel D. Gibson, Status and distribution of Alaska birds, 360
Kestrel, American, see Falco sparverius
Ketterson, Ellen D., Aggressive behavior in wintering Dark-eyed Juncos: determinants of dominance and their possible relation to geographic variation in sex ratio, 371–383
Kilham, L., Chestnut-colored Woodpeckers feeding as a pair on ants, 149–150
Kilham, L., Three-week vs 4-week nestling periods in Picoides and other woodpeckers, 335–338
Killdeer, see Charadrius vociferus
Kingbird, Eastern, see Tyrannus tyrannus
kingfisher, 23
Kinglets, Golden-crowned, see Regulus satrapa
Ruby-crowned, see Regulus calendula
Kite, Black, see Milvus migrans
Everglade, see Rostrhamus sociabilis
Swallow-tailed, see Elanoides forficatus

Kittiwake, Black-legged, see Rissa tridactyla
Knot, Red, see Calidris canutus
Krebs, John R. and Nicholas B. Davies, eds., Behavioural ecology: an evolutionary approach, reviewed, 632–634
Kushlan, James A., Arboreal foraging by Cattle Egrets, 471–472
Lagopus lagopus, 229
Landers, J. Larry, Ground Dove use of young pine plantations, 467–468
Lanius ludovicianus, 94, 468–469
Lark, Horned, see Eremophila alpestris
Larus argentatus, 134, 141, 420, 422–424, 575–582
  atricilla, 626–628
  californicus, 565
  delawarensis, 438, 565, 623–625, 628
  fuscus, 420, 423, 575–582
  glaucescens, 94, 412, 420–425
  hyperboreus, 420, 423, 611, 613
  marinus, 423, 575–582
Laterallus jamaicensis, 205, 206, 208, 211
  spilonotus, 202–221
learning, in Tympanuchus cupido, 618–621
Leberman, Robert C., see Mary H. Clench and ———
Lennartz, M. R. and R. F. Harlow, The role of parent and helper Red-cockaded Woodpeckers at the nest, 331–335
Leopold, A. Starker, The California Quail, reviewed, 360–361
Lepomus sp., 630
Leptoptilos crumeniferus, 463
Lepus californicus, 132
Lesbia nuna, 185
Lewis, Stephen J., see Samson, Fred B. and ———
life members,
  Cottrille, Betty D., 550
  Gutzke, Theodore W., 472
  Martin, Kathy, 243
  Zar, Jerrold H., 476
Limnodromus griseus, 271–278
Limosa limosa, 560
Littlefield, C. D., Interspecific use of Sandhill Crane nests, 323
lizard, sage brush, see Sceloporus graciosus
  short-horned, see Phrynosoma douglassi
Loftin, R. W. and S. Sutton, Ruddy Turnstones destroy Royal Tern colony, 133–135
Loon, Arctic, see Gavia arctica
Lowther, P. E., Nest selection by Brown-headed Cowbirds, 118–122
Loxia curvirostra, 307, 309, 311, 313
  leucoptera, 622
Lumsden, H. G., see Raveling, D. G. and ———
Lunda cirrhata, 413, 415
Lyrurus tetrix, 150
Macinko, G., see Hammond, K. A., ——— and W. B. Fairchild
MacKenzie, John P. S., Birds in peril, reviewed, 160–162
Magpie, Black-billed, see Pica pica
Maher, William J., review by, 355–356
Mallards, see Anas platyrhynchos
Mallory, Elizabeth P. and David C. Schneider, Agonistic behavior in Short-billed Dowitchers feeding on a patchy resource, 271–278
Marchant, J. H., see Prater, A. J., ——— and J. Vuorinen
Mares, Michael A., review by, 160–162
Markham, O. Doyle, see Craig, Timothy, Douglas K. Halford and ———
Marmota monax, 328
Marshall, Joe T., Systematics of smaller Asian night birds based on voice, reviewed, 356–357
Martin, Dennis J., review by, 364–365
Martin, Purple, see Progne subis
Mason, Phillip, see Causey, Keith, et al.
Master, Terry L., An incident of Blue Jay predation on a House Sparrow, 470
Mauren, David R., review by, 358–359
Mayr, Ernst, Birds of the southwest Pacific, reviewed, 159
McGillivray, W. B. and D. J. Brooks, An observation of stick presentation by the Swallow-tailed Kite, 148
Meadowlark, Eastern, see Sturnella magna
  Western, see Sturnella neglecta
meetings and conferences
  1978 (59th) annual meeting, proceedings, 163–176
  1979 (60th) annual meeting proceedings, 479–494

Colonial Waterbird Group meeting, announcement, 287
Third joint COS-WOS (1980) meeting, announcement, 477, 634
Fifth Pan African Ornithological Congress, 634
Seventh Woodcock Symposium, 635
XVIII International Ornithological Congress (1982), announcement, 477
Northeast Endangered Species Conference, 635
Pacific Seabird Group, 635
Symposium on New Hampshire Endangered Species, announcement, 383
Melanerpes carolinus, 19, 20, 25, 91, 92, 96, 97, 126–131, 400–411
chrysauchen, 25
cruentatus, 26
erythrocephalus, 18, 25, 91, 92, 97, 98, 126–131, 337, 400–411
formicivorus, 19, 26
pucherani, 20
rubricapillus, 20, 23, 25
striatus, 26
Melospiza georgiana, 95, 98, 624
lincolnii, 469–470
melodia, 95, 464, 466, 624
Mephitis mephitis, 427, 565
Micrastur semitorquatus, 190
Micrathene whitneyi, 16
Microtus montanus, 55, 58, 59
oeconomus, 613
pennsylvanicus, 119, 623, 624
Microtus sp., 58, 623, 624
migration
Grus canadensis, 137–140
Quiscalus quiscula, 78–87
Oceanodroma leucorhoa, 141–142
Milvus migrans, 463
Mimus polyglotos, 91, 93, 98
Mniotilta varia, 311
Mockingbird, see Mimus polyglottos
mole, hairy-tailed, see Parascalops breweri
Molothrus aenus, 628
ater, 78, 118–122, 122–123, 310, 321–322, 426, 447, 452
badius, 151–154
bonariensis, 123, 628
rufoaxillaris, 151–154
molt
see plumage
Morrison, Michael L., Loggerhead Shrike eggshell thickness in California and Florida, 468–469
Morrison, R. I. Guy, review by, 159–160
Morse, Douglass, H., Habitat use by the Blackpoll Warbler, 234–243
mouse, deer, see Peromyscus maniculatus
Great Basin pocket, see Perognathus parvus
white-footed, see Peromyscus leucopus
Mulhern, Bernard M., see White, Donald H., Reg C. Stendall and ———
Mulleripicus pulverulentus, 19
Mundahl, J. T., Black-billed Magpie predation of a Killdeer nest, 330
Murrelet, Ancient, see Synthliboramphus antiquus
Mycteria americana, 512–523
Myiarchus crinitus, 310
Myiarchus sp., 16
Myioborus flavivertex, 147
melanocephalus, 147
ornatus, 147
Natrix sipedon, 427
Nectarinia coccinigaster, 39
Nellis, D. W., Record of Puerto Rican Screech Owl, Turkey Vulture and Osprey from St. Croix, U.S. Virgin Islands, 148–149
Neocrex erythrops, 205
Neophron percnopterus, 463
Nesbitt, S. A. and L. E. Williams, Jr., Summer range and migration routes of Florida wintering Greater Sandhill Cranes, 137–141
Nesbitt, Stephen A., see Ogden, John C. and ———
nesting
density, see population, density
ecology, site selection success, see breeding biology, general and behavior, breeding
nestlings
Celeus undatus, 338
Picoides borealis, 335
Pycnonotus jocosus, 323–324
see also breeding biology, general and behavior, breeding
nests
in holes

Chaetura pelagica, 154
Picidae, 16–28
interspecific use of Grus canadensis, 323
predation on Killdeer nests by Black-billed Magpie, 330
new bimonthly magazine, The Bird Watcher's Digest, reviewed, 158
Nolan, Val, Jr., The ecology and behavior of the Prairie Warbler, Dendroica discolor, reviewed, 361–364
Numenius americanus, 560, 563, 566, 567, 626
arquatus, 567
borealis, 331
phaeopus, 331
Nuthatch, Red-breasted, see Sitta canadensis
White-breasted, see Sitta carolinensis
Oakley, K. L., see Divoky, G. J., ——— and H. R. Huber
O'Brien, P., Breeding activities of Waved Woodpeckers in Surinam, 338–344
Oceanodroma furcata, 413, 415
leucorhoa, 141–143, 413, 415, 579
Ocreatus underwoodii, 185
Odocoileus virginianus, 104
Ogden, John C. and Stephen A. Nesbitt, Recent Wood Stork population trends in the United States, 512–523
Oilbird, see Steatornis caripensis
Oldsquaw, see Clangula hyemalis
Olor buccinator, 323
Opheodrys vernalis, 110
Oporornis philadelphia, 624
opossum, see Didelphis virginiana
Oriole, Northern, see Icterus galbula
Ornithological Literature, 157–162, 348–365, 473–476, 632–634
Ornithological News, 156, 347, 477–478, 634–635
Osbourne, David R. and Steven R. Beissinger, Long-winged Harrier predation on Wattled Jacana eggs, 470–471
Osprey, see Pandion haliaetus
otter, sea, see Enhydra lutris
Otus nudipes, 148–149
Ovenbird, see Seiurus aurocapillus
ovenbirds, see Xenops sp.
Owl, Barred, see Strix varia
Elf, see Micrathene whitneyi
Great Horned, see Bubo virginianus
Long-eared, see Asio otus
Puerto Rican Screech, see Otus nudipes
Short-eared, see Asio flammeus
Oxyura jamaicensis, 280, 282, 323
Pandion haliaetus, 148–149, 283
Parascalops breweri, 110
parasitism
by Molothrus aenus, 628
by Molothrus ater, 118–122, 122–123, 321–323
Parker, T. A., see Hilty, S. L., ——— and J. Silliman
Parkes, Kenneth C., review by, 348–354
parrots, 18, 25
Parula americana, 234
Parus atricapillus, 222–233, 307, 397
bicolor, 91, 93, 100, 222–233, 307, 311, 328
caeruleus, 228
carolinensis, 91, 92, 96, 307, 309, 310, 312, 321
cristatus, 222
inornatus, 229
major, 96, 98, 222, 225, 227, 228, 230
montanus, 222
sclateri, 253
Passer domesticus, 95, 118, 121, 317–319, 438, 451, 470, 587, 589, 590
montanus, 25, 317–319
Passerculus sandwichensis, 595–598, 624
Passerella iliaca, 123, 307
Passerina cyanea, 310, 312, 313, 464
Payne, Robert B. and Paul Budde, Song differences and map distances in a population of Acadian Flycatchers, 29–41
Pedioecetes phasianellus, 150–151, 618–621
Peifer, R. W., Great Blue Herons foraging for small mammals, 630–631
Pelecanus occidentalis, 62
Pelican, Brown, see Pelecanus occidentalis
pellet ejection
in 11 species, 626–628
Penguin, Adelie, see Pygoscelis adeliae, 255–270
Perognathus parvus, 58, 59
Peromyscus leucopus, 110
maniculatus, 55, 58, 59, 73, 624

Peterson, Margaret R., Nesting ecology of Arctic Loons, 608–617
Peterson, Steven R. and Robert S. Ellarson, Changes in Oldsquaw carcass weight, 288–300
Phaethornis superciliosus, 320
Phalacrocorax carbo, 281, 461–463
urile, 413, 415
Phalarope, Wilson's, see Phalaropus tricolor
Phalaropidae, 329
Phalaropus tricolor, 560
Phasianus colchicus, 297, 437
Pheasant, Ring-necked, see Phasianus colchicus
Philohela minor, 463–464
Phoebe, Black, see Sayornis nigricans
Eastern, see Sayornis phoebe
Say's, see Sayornis saya
Pica pica, 54, 56, 547, 566
Picoides arcticus, 17, 25
borealis, 19, 20, 24, 25, 26, 253, 331–335, 336, 337
canicapillus, 20, 22
leucotos, 17, 336, 357
macei, 20, 22
mahrattensis, 25
major, 19, 20, 22, 335, 336
medius, 22, 335, 336
minor, 19, 20, 335, 336
nuttallii, 20
obsoletus, 24
pubescens, 19, 25, 91, 92, 126–131, 230, 252, 307, 310, 335, 336, 400–411
stricklandii, 244–254
syriacus, 19, 25
tridactylus, 17
villosus, 17, 19, 20, 25, 92, 248, 253, 311, 313, 314, 335–337
Piculus aurulentus, 24
chrysochlorus, 24
Picus puniceus, 20, 24
viridis, 149
Pinowski, Jan and S. Charles Kendeigh, eds., Granivorous birds in ecosystems, reviewed, 355–356
Pintail, see Anas acuta
Pipilio erythrophthalmus, 95, 96, 98, 123–126, 310, 312
Plover, Black-bellied, see Squatarola squatarola
Wilson, see Charadrius wilsonia
plumage
of Anas discors × Anas cyanoptera hybrid
of Calypte anna × Selasphorus sasin hybrid
of Catamblyrhynchus diadema, 145–146
of Larus glaucescens, 420–425
of Phalacrocorax carbo, 461–463
pocket gopher, northern, see Thymomys talpoides
prairie, see Geomys bursarius
Polioptila caerulea, 311
pollutants
effects on Aythya valisneria, 274–287
effects on raptors, 72–77
effects on Sterna albifrons, 62–71
population
density
Mycteria americana, 512–523
Rostrhamus sociabilis, 495–511
see also censusing
regulation
Parus cristatus and Passer montanus, 222–233
Portnoy, John W. and W. E. Dodge, Red-shouldered Hawk nesting ecology and behavior, 104–117
Porzana carolina, 217
Prairie Chicken, Greater, see Tympanuchus cupido
prairie dog, black-tailed, see Cynomys ludovicianus
Piranga olivacea, 311, 313
Prater, A. J., J. H. Marchant and J. Vuorinen, Guide to the identification and ageing of Holarctic waders, reviewed, 159–160
Prather, Irvine D., see Conner, Richard N., Jerry W. Via and ———
predation
on eggs and nestlings of Agelaius phoeniceus, 426–433
by Arenaria interpres on Sterna maximus, 133–135
by Bubo virginianus on Corvus brachyrhynchos, 133
by Cyanositta cristata on Passer domesticus, 470
by Circus buffoni on Jacana jacana, 470–471

by Pica pica on Charadrius vociferus nests, 330
by Stercorarius pomarinus on Rissa tridactyla, 329
by Vulpes fulva on Grus canadensis, 132–133
President's message, 477
Procyon lotor, 66, 328, 337, 427, 451
Progne subis, 155, 583–591
Pronghorn, see Antilacapra americana
Prouty, Richard, M., see Blus, Lawrence J. and ———
Psaltriparus minimus, 122–123
Pseudocolaptes boissonneautii, 146
Pseutes poecilonotus, 344
Psittacula krameri, 25
Pteroglossus castanotis, 341
torquatus, 341
Ptychoramphus aleuticus, 413
Puffin, Horned, see Fratercula corniculata
Tufted, see Lunda cirrhata
Puffinus puffinus, 142, 579
tenuirostris, 142
Pycnonotus cafer, 324, 325
jocosus, 323–328
Pygoscelis adeliae, 255–270
Pyrrhula pyrrhula, 297
Quail, Japanese, see Coturnix coturnix
Quiscalus quiscula, 78–87, 91, 94, 307, 311, 427, 451
raccoon, see Procyon lotor
Raikow, R. J., reviews by, 158–159, 162, 354–355, 359–360, 364, 474
Raikow, Robert J., Appendicular myology and relationships of the New world nine-primaried oscines (Aves: Passeriformes), reviewed, 364
Rail, Black, see Laterallus jamaicensis
Clapper, see Rallus longirostris
Galapagos, see Laterallus spilonatus
Sora, see Porzana carolina
Virginia, see Rallus limicola
Raitt, J. Ralph and John W. Hardy, Social behavior, habitat and food of the Beechey Jay, 1–15
Rallus limicola, 217
longirostris, 297
Rana pipiens, 630
range extension
Pycnonotus jocosus, 323
rat, black, see Rattus rattus
Rattus rattus, 208
Rattus sp., 66
Raveling, D. G. and H. G. Lumsden, Nesting ecology of Canada Geese in the Hudson Bay lowlands of Ontario: evolution and population regulation, reviewed, 157–158
Raven, Fan-tailed, see Corvus rhipidurus
White-necked, see Corvus cryptoleucus
Recurvirostra americana, 560, 565, 566, 568
Redpoll, Common, see Carduelis flammea
Redstart, American, see Setophaga ruticilla
Golden-fronted, see Myioborus ornatus
Spectacled, see Myioborus flavivertex
Yellow-crowned, see Myioborus melanocephalus
Regulus calendula, 94, 96, 237, 307
satrapa, 93, 96, 307, 309
Reinwardtipicus validus, 24
Reithrodontomys, 9
Riparia riparia, 135–137, 438
Rissa tridactyla, 329, 413, 415
Roadrunner, see Geococcyx californianus
Robin, American, see Turdus migratorius
Roboski, John, see Causey, Keith, et al.
Rostrhamus sociabilis, 495–511
Royall, Willis C., Jr., see Bray, Olin E., et al.
Rumboll, Maurice A. E. and Joseph R. Jehl, Jr., Observations on pelagic birds in the south Atlantic Ocean in the austral spring, reviewed, 364
Ryder, John P. and C. Davison Ankney, review by, 157–158
Rynchops niger, 626–628
Samson, Fred B. and Stephen J. Lewis, Experiments on population regulation in the North American parids, 222–233
Sanderling, see Calidris alba
sandlance, Pacific, see Ammodytes hexapterus
Sandpiper, Green, see Tringa ochropus
Solitary, see Tringa solitarius
Sapsucker, Yellow-bellied, see Sphyrapicus varius
Sayornis nigricans, 443
phoebe, 311, 441–454
saya, 443

Sceloporus graciosus, 55
Schneider, David C., see Mallory, Elizabeth P. and ———
Scott, Thomas W., Growth and age determination of nestling Brown-headed Cowbirds, 464–466
sculpin, see Hemilepidotus hemilepidotus
Sebastes sp., 418
sea lion, Steller's, see Eumetopias jubata
Selasphorus sasin, 524–532
Selenidira culik, 341, 344
Seiurus aurocapillus, 237, 311, 312, 313
motacilla, 311
Setophaga ruticilla, 237, 547
Sexton, D. A., Off-lek copulation in Sharp-tailed Grouse, 150–151
Shearwater, Manx, see Puffinus puffinus
Slender-billed, see Puffinus tenuirostris
Shipley, Frank S., Predation on Red-winged Blackbird eggs and nestlings, 426–433
Short, Lester L., Burdens of the picid hole excavating habit, 16–28
shrew, masked, see Sorex cinereus
short-tailed, see Blarina brevicauda
Shoveler, Northern, see Anas clypeata
Red, see A. platalea
Shrike, Loggerhead, see Lanius ludovicianus
Sialis sialis, 18, 91, 92, 96, 98, 314, 321–322
Silliman, J., see Hilty, S. L., T. A. Parker and ———
Siskin, Pine, see Carduelis pinus
Sitta canadensis, 307, 309
carolinensis, 91, 93, 126–131, 230, 307, 309, 311, 312, 400–411
Skimmer, Black, see Rynchops nigra
skunk, striped, see Mephitis mephitis
Smith, Kimberly G., Common Redpoll using spruce seeds in northern Utah, 621–623
Smith, J. P. and R. J. Atkins, Cowbird parasitism in Common Bushtit nest, 122–123
snake, black rat, see Elaphe obsoleta
common garter, see Thamnophis sirtalis
smooth green, see Opheodrys vernalis
water, see Natrix sipedon
Snow, Barbara K., The Oilbirds of Los Tayos, 457–461
Snow, D. W., ed., An atlas of speciation of African non-passerine birds, reviewed, 473–474
Sordahl, Tex A., Vocalizations and behavior of the Willet, 551–574
Sorex cinereus, 110
Sorex sp., 59
Sparling, Donald W., Evidence for vocal learning in Prairie Grouse, 618–621
Sparrow, Chipping, see Spizella passerina
European Tree, see Passer montanus
Field, see Spizella pusilla
Fox, see Passerella iliaca
Grasshopper, see Ammodramus savannarum
House, see Passer domesticus
Lincoln's, see Melospiza lincolnii
Rufous-collared, see Zonotrichia capensis
Savannah, see Passerculus sandwichensis
Song, see Melospiza melodia
Swamp, see Melospiza georgiana
Tree, see Spizella arborea
White-crowned, see Zonotrichia leucophrys
White-throated, see Zonotrichia albicollis
Spermophilus tridecemlineatus, 630
Sphyrapicus varius, 17, 92
Spinus tristis, 95, 118, 119, 310, 312
Spizella arborea, 91, 95
passerina, 624
pusilla, 95, 118, 310, 313, 464
Spotted Sandpiper, see Actitis macularia
Springer, P. F., see Avery, M. L., ——— and N. S. Dailey
Squatarola squatarola, 625–628
squirrel, eastern fox, see Sciurus niger
red, see Tamiasciurus
thirteen-lined ground, see Spermophilus tridecemlineatus
Starling, see Sturnus vulgaris
Steatornis caripensis, 457–461
Stendall, Reg C., see White, Donald H., ——— and Bernard M. Mulhern
Stercorarius longicaudus, 611
parasiticus, 329, 611
pomarinus, 329
Sterna albifrons, 62–71, 135, 300, 636–638
fuscata, 626–628
maxima, 133–135, 626–628
sandvicensis, 626–628
Stilt, Black-necked, see Himantopus mexicanus

Stork, Marabou, see Leptoptilos crumeniferus
Wood, see Mycteria americana
Storer, R. W., Misidentified "Eskimo Curlews," 331
Storm-Petrel, Fork-tailed, see Oceanodroma furcata
Leach's, see Oceanodroma leucorhoa
Sturnella magna, 280
neglecta, 54, 55, 345
Sturnus vulgaris 16, 18, 19, 20, 25, 54, 55, 78, 79, 83, 91, 95, 402, 579, 587, 589, 590
Strix varia, 89, 104
Streptopelia risoria, 438
Sugden, Lawson G., Habitat use by nesting American Coots in Saskatchewan parklands, 599–602
sun angels, see Heliangelus spp.
Sunbird, Splendid, see Nectarinia coccinigaster
sunfish, see Lepomis
Sutton, S., see Loftin, R. W. and ———
Swallow, Bank, see Riparia riparia
Barn, see Hirundo rustica
Tree, see Iridoprocne bicolor
Swan, Trumpeter, see Olor buccinator
Swift, Chimney, see Chaetura pelagica
Sykes, Paul W., Jr., Status of the Everglade Kite in Florida 1968–1978, 495–511
Synthliboramphus antiquus, 413, 415
systematics
Gruidae, 384–399
Tamias striatus, 109, 110, 115, 630
Tamiasciurus hudsonicus, 110, 328, 623
Tanager, Black-capped, see Hemispingus atropileus
Golden-crowned, see Iridosornis rufivertex
Lacrimose Mountain, see Anisognathus lacrymosus
Scarlet, see Piranga olivacea
Yellow-scarfed, see Iridosornis reinhardti
Teal, Blue-winged, see Anas discors
Cinnamon, see Anas cyanoptera
telemetry, Quiscalus quiscula, 78–87
Tern, Gull-billed, see Gelochelidon nilotica
Least, see Sterna albifrons
Sandwich, see Sterna sandvicensis
Sooty, see Sterna fuscata
Royal, see Sterna maxima
Thaleichthys pacificus, 424
Thalurania colombica, 319–321
Thamnophis sirtalis, 110, 566
Thompson, William L., review by, 361–364
Thompson, William L., see Bankwitz, Kenneth G. and ———
Thrasher, Brown, see Toxostoma rufum
Thrush, Gray-cheeked, see Catharus minimus
Hermit, see Catharus guttatus
Swainson's, see Catharus ustulatus
Varied, see Ixoreus naevius
Wood, see Hylocichla mustelina
Thryothorus ludovicianus, 91, 93, 96, 98, 307, 310, 321
time budgets
Northern Shovelers, 42–49
Tit, Blue, see Parus caeruleus
Crested, see Parus cristatus
Great, see Parus major
Willow, see Parus montanus
Titmouse, Plain, see Parus inornatus
Tufted, see Parus bicolor
Titrya inquisitor, 18
semifasciata, 18
Tit-tyrant, Agile, see Uromyias agilis
Unstreaked, see Uromyias agraphia
Toucan, Aracari, see Pteroglossus
Toucanet, Guianan, see Selenidira culik
Totanus melanoleucus, 626–628
Towhee, Rufous-sided, see Pipilio erythrophthalmus
Toxostoma rufum, 91, 93, 96, 98, 100, 119, 310
Trachyphonus vaillantii, 18
Tramer, Elliot J., First sight records of Lincoln's Sparrow for Costa Rica, 469–470
Trapp, John L., Variation in summer diet of Glaucous-winged Gulls in the western Aleutian Islands: an ecological interpretation, 412–419
Tricholaema sp., 23
Tringa nebularia, 560
ochropus, 560
solitaria, 560
Troglodytes aedon, 450, 451, 455
troglodytes, 93, 96, 98, 237
Trost, Charles H., see Craig, Timothy H. and ———

Tufted-cheek, Streaked, see Pseudocolaptes boissonneautii
Turdus migratorius, 91, 93, 97, 118, 310
Turnstone, Ruddy, see Arenaria interpres
Tyler, Hamilton J., Owls by day and night, reviewed, 364–365
Tympanuchus cupido, 150, 618–621
Tyrannus tyrannus, 121, 122
Urban, Emil K., Observations on the nesting biology of the Great Cormorant in Ethiopia, 461–463
Uria sp., 415
Uromyias agilis, 147
  agraphia, 147
van Riper, Charles, III, Sandra G. van Riper and Andrew J. Berger, The Red-whiskered Bulbul in Hawaii, 323–328
van Riper, Sandra G., see van Riper, Charles, III, ——— and Andrew J. Berger
van Someren, V. G. L., The birds of East Africa, reviewed, 474–476
Venilornis spilogaster, 24
Verbeek, Nicholaas A. M., Some aspects of the breeding biology and behavior of the Great Black-backed Gull, 575–582
Verbeek, Nicholaas A. M., Timing of primary molt and egg-laying in Glaucous-winged Gulls, 420–425
Verdin, see Auriparus flaviceps
Vermivora ruficapilla, 237, 240
Via, Jerry W., see Conner, Richard N., ——— and Irvine D. Prather
Villeda, Amanda, Rufous-collared Sparrow victimized by Bronzed Cowbird, 628
Vireo, Bell's, see Vireo bellii
  Red-eyed, see Vireo olivaceus
  Solitary, see Vireo solitarius
  White-eyed, see Vireo griseus
Vireo bellii, 118
  griseus, 310, 313
  olivaceus, 237, 311
  solitarius, 237
vocalization
  Calypte anna, 524–532
  Catoptrophorus semipalmatus, 551–574
  Celeus undatus, 338–344
  Cissilopha sp., 187–200
  Dendroica petechia, 533–550
  Empidonax virescens, 29–41
  Laterallus spilonotus, 201–213
  Selasphorus sasin, 524–532
  Tympanuchus cupido, 618–621
vole, meadow, see Microtus pennsylvanicus
  montane, see Microtus montanus
  red-backed, see Clethrionomys gapperi
  tundra, see Microtus oeconomus
Vulpes fulva, 132, 566, 611, 613
Vulture, Black, see Coragyps atrata
  Egyptian, see Neophron percnopterus
  Turkey, see Cathartes aura
Vuorinen, J., see Prater, A. J., J. H. Marchant and ———
Walkinshaw, Lawrence H., Life history of the eastern Field Sparrow in Calhoun County, Michigan, reviewed, 474
Wallace, George G., Environmental status of the Lake Michigan region, reviewed, 364
Warbler, Bay-breasted, see Dendroica castanea
  Black-and-white, see Mniotilta varia
  Blackburnian, see Dendroica fusca
  Blackpoll, see Dendroica striata
  Black-throated Blue, see Dendroica caerulescens
  Black-throated Green, see Dendroica virens
  Canada, see Wilsonia canadensis
  Cape May, see Dendroica tigrina
  Chestnut-sided, see Dendroica pensylvanica
  Citrine, see Basileuterus luteoviridis
  Grace's, see Dendroica graciae
  Hooded, see Wilsonia citrina
  Magnolia, see Dendroica magnolia
  Mourning, see Oporornis philadelphia
  Nashville, see Vermivora ruficapilla
  Parula, see Parula americana
  Pine, see Dendroica pinus
  Prairie, see Dendroica discolor
  Yellow-rumped, see Dendroica coronata
  Yellow-throated, see Dendroica dominica
Waterthrush, Louisiana, see Seiurus motacilla
Waxwing, Cedar, see Bombycilla cedrorum
weasel, long-tailed, see Mustela frenata
Weeks, Harmon P., Jr., Nesting ecology of

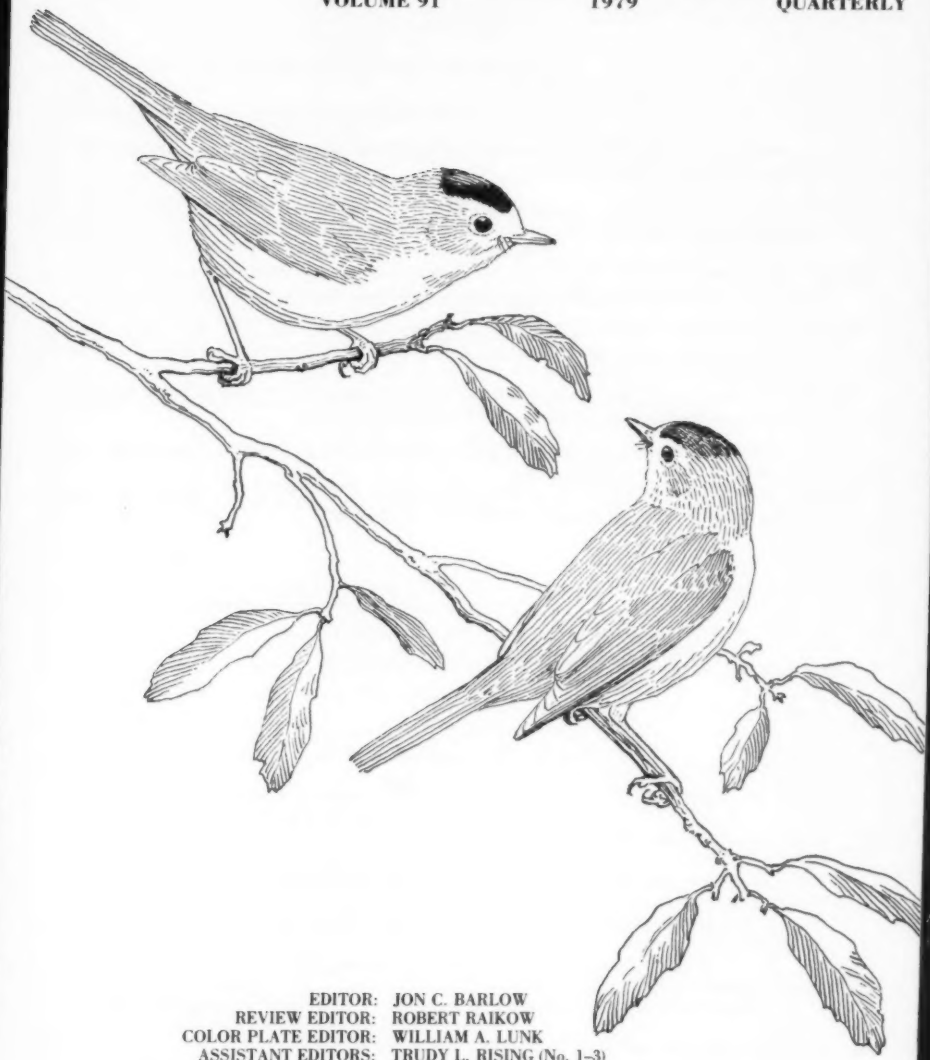
the Eastern Phoebe in southern Indiana, 441–454
Wells, Shirley and Luis F. Baptista, Displays and morphology of an Anna × Allen Hummingbird hybrid, 524–532
Whimbrel, see Numenius phaeopus
White, Donald H., Reg C. Stendall and Bernard M. Mulhern, Relations of wintering Canvasbacks to environmental pollutants—Chesapeake Bay, Maryland, 279–287
Whitmore, Robert C., Temporal variation in the selected habitats of a guild of grassland sparrows, 592–598
Willet, see Catoptrophorus semipalmatus
Williams, J. B. and George O. Batzli, Winter diet of a bark-foraging guild of birds, 126–131
Williams, J. B. and George O. Batzli, Interference competition and niche shifts in the bark-foraging guild in central Illinois, 400–411
Williams, L. E., see Nesbitt, S. A. and ———
Wilsonia canadensis, 237
citrina, 310, 312
Wilzbach, P. A., see Bertin, R. I. and ———
Winkler, Hans, Foraging ecology of Strickland's Woodpecker in Arizona, 244–254
Wood, D. Scott, Phenetic relationships within the family Gruidae, 348–399
Woodcock, American, see Philohela minor
woodchuck, see Marmota monax
Woodnymph, Crowned, see Thalurania colombica
Woodpecker, Acorn, see Melanerpes formicivorus
Bearded, see Dendropicos namaquus
Black-backed, see Picoides arcticus
Chestnut, see Celeus elegans
Chestnut-colored, see Celeus castaneus
Crimson-crested, see Campephilus melanoleucos
Crimson-winged, see Picus puniceus
Downy, see Picoides pubescens
European Green, see Picus viridis
Great Slaty, see Mulleripicus pulverulentus
Great Spotted, see Picoides major
Hairy, see Picoides villosus
Linneated, see Dryocopus lineatus
Nubian, see Campethera nubica
Nuttall's, see Picoides nuttallii
Pale-billed, see Campephilus guatamalensis
Pale-crested, see Celeus lugubris
Pileated, see Dryocopus pileatus
Red-bellied, see Melanerpes carolinus
Red-cockaded, see Picoides borealis
Red-headed, see Melanerpes erythrocephalus
Strickland's, see Picoides stricklandii
Waved, see Celeus undatus
White-bellied Black, see Dryocopus javensis
Woodward, J. C., see Woodward, P. W. and ———
Woodward, P. W. and J. C. Woodward, Brown-headed Cowbird parasitism on Eastern Bluebirds, 321–322
Wren, Carolina, see Thryothorus ludovicianus
Bar-winged Wood, see Henicorhina leucoptera
House, see Troglodytes aedon
Winter, see Troglodytes troglodytes
Wryneck, see Jynx ruficollis
Xenops, 18
Yellowlegs, Greater, see Totanus melanoleucus
Zenaida macroura, 75
Zonotrichia albicollis, 91, 95, 96, 98, 123, 237, 438, 624
capensis, 469, 628
leucophrys, 123, 438

This issue of *The Wilson Bulletin* was published on 29 January 1980.

The Wilson Bulletin

PUBLISHED BY THE WILSON ORNITHOLOGICAL SOCIETY

VOLUME 91 1979 QUARTERLY



EDITOR: JON C. BARLOW
REVIEW EDITOR: ROBERT RAIKOW
COLOR PLATE EDITOR: WILLIAM A. LUNK
ASSISTANT EDITORS: TRUDY L. RISING (No. 1–3)
MARGARET L. MAY (No. 4)
SENIOR EDITORIAL ASSISTANTS: MARGARET MAY (No. 1–3)
GARY BORTOLOTTI (No. 4)
NANCY FLOOD (No. 4)
EDITORIAL ASSISTANTS: MELINDA BARLOW
GARY BORTOLOTTI (No. 1–3)
NANCY FLOOD (No. 1–3)
DOROTHY M. RICHARDSON (No. 4)
JAMES D. RISING
PETER THOMPSON
SHIRLEY THOMPSON (No. 1–3)

President—George A. Hall, Department of Chemistry, West Virginia University, Morgantown, West Virginia 26506.

First Vice-President—Abbot S. Gaunt, Department of Zoology, Ohio State University, Columbus, Ohio 43210.

Second Vice-President—Jerome A. Jackson, Department of Biological Sciences, P.O. Drawer Z, Mississippi State University, Mississippi State, Mississippi 39762.

Editor—Jon C. Barlow, Department of Ornithology, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, Canada M5S 2C6.

Secretary—Curtis S. Adkisson, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061.

Treasurer—Robert D. Burns, Department of Biology, Kenyon College, Gambier, Ohio 43022.

Elected Council Members—Clait E. Braun (term expires 1980); Sidney A. Gauthreaux, Jr. (term expires 1981); Richard C. Banks (term expires 1982).

DATES OF ISSUE OF VOLUME 91
OF THE WILSON BULLETIN

NO. 1—27 APRIL 1979
NO. 2—31 JULY 1979
NO. 3—16 OCTOBER 1979
NO. 4—29 JANUARY 1980

CONTENTS OF VOLUME 91

NUMBER 1

SOCIAL BEHAVIOR, HABITAT, AND FOOD OF THE BEECHEY JAY
Ralph J. Raitt and John William Hardy 1

BURDENS OF THE PICID HOLE-EXCAVATING HABIT ..... *Lester L. Short* 16

SONG DIFFERENCES AND MAP DISTANCES IN A POPULATION OF ACADIAN FLYCATCHERS
Robert B. Payne and Paul Budde 29

TIME BUDGET OF BREEDING NORTHERN SHOVELERS ..... *Alan D. Afton* 42

THE BIOLOGY AND NESTING DENSITY OF BREEDING AMERICAN KESTRELS AND LONG-EARED OWLS ON THE BIG LOST RIVER, SOUTHEASTERN IDAHO
Timothy H. Craig and Charles H. Trost 50

ORGANOCHLORINE POLLUTANTS AND POPULATION STATUS OF LEAST TERNS IN SOUTH CAROLINA ..... *Lawrence J. Blus and Richard M. Prouty* 62

RADIONUCLIDE CONCENTRATIONS IN NESTLING RAPTORS NEAR NUCLEAR FACILITIES
Timothy H. Craig, Douglas K. Halford, and O. Doyle Markham 72

ACTIVITIES OF RADIO-EQUIPPED COMMON GRACKLES DURING FALL MIGRATION
Olin E. Bray, Willis C. Royall, Jr., Joseph L. Guarino, and Richard E. Johnson 78

SEVERE WINTER WEATHER AND BIRD POPULATIONS IN SOUTHERN ILLINOIS
Jean W. Graber and Richard R. Graber 88

RED-SHOULDERED HAWK NESTING ECOLOGY AND BEHAVIOR
John W. Portnoy and Wendell E. Dodge 104

GENERAL NOTES

NEST SELECTION BY BROWN-HEADED COWBIRDS ..... *Peter E. Lowther* 118

COWBIRD PARASITISM ON COMMON BUSHTIT NEST
Jan Peter Smith amd Riley J. Atkins 122

EFFECT OF FOOD AVAILABILITY ON LEAF-SCRATCHING BY THE RUFOUS-SIDED TOWHEE: TEST OF A MODEL ..... *Edward H. Burtt and Jack P. Hailman* 123

WINTER DIET OF A BARK-FORAGING GUILD OF BIRDS
Joseph B. Williams and George O. Batzli 126

MANTIDS SELECTED AS PREY BY BLUE GROSBEAKS ..... *Fred J. Alsop, III* 131

RED FOX PREDATION ON GREATER SANDHILL CRANE CHICKS
Robert L. Drieslein and Alan J. Bennett 132

OWL PREDATION ON A MOBBING CROW ..... *Render D. Denson* 133

RUDDY TURNSTONES DESTROY ROYAL TERN COLONY
Robert W. Loftin and Steve Sutton 133

PREDATION OF BLACK RAT SNAKES ON A BANK SWALLOW COLONY ..... *Charles R. Blem* 135

SUMMER RANGE AND MIGRATION ROUTES OF FLORIDA WINTERING GREATER SANDHILL CRANES ..... *Stephen A. Nesbitt and Lovett E. Williams, Jr.* 137

OLFACTORY GUIDANCE OF LEACH'S STORM PETREL TO THE BREEDING ISLAND
Thomas C. Grubb, Jr. 141

EFFECTS OF HIGHWAYS ON RED-WINGED BLACKBIRD AND HORNED LARK POPULATIONS ..... *W. Dwight Clark and James R. Karr* 143

OBSERVATIONS ON PLUSH-CAPPED FINCHES IN THE ANDES WITH A DESCRIPTION OF THE JUVENAL AND IMMATURE PLUMAGES
Steven L. Hilty, Theodore A. Parker III, and James Silliman 145

AN OBSERVATION OF STICK PRESENTATION BY THE SWALLOW-TAILED KITE
W. Bruce McGillivray and David J. Brooks 148

RECORD OF PUERTO RICAN SCREECH OWL, TURKEY VULTURE AND OSPREY FROM ST. CROIX, U.S. VIRGIN ISLANDS ..... *David W. Nellis* 148
CHESTNUT-COLORED WOODPECKERS FEEDING AS A PAIR ON ANTS ..... *Lawrence Kilham* 149
OFF-LEK COPULATION IN SHARP-TAILED GROUSE ..... *Donald A. Sexton* 150
DIFFERENCES BETWEEN NESTLINGS AND FLEDGLINGS OF SCREAMING AND BAY-WINGED COWBIRDS ..... *Rosendo M. Fraga* 151
CHIMNEY SWIFT NEST FOUND IN HOLLOW TREE *K. Douglas Blodgett and Richard M. Zammuto* 154
NOTES ON THE REPRODUCTIVE BEHAVIOR OF THE YELLOW-BILLED CUCKOO *Stephen W. Eaton* 154

ORNITHOLOGICAL NEWS 156

ORNITHOLOGICAL LITERATURE 157

PROCEEDINGS OF THE FIFTY-NINTH ANNUAL MEETING 163

NUMBER 2

A NEW SPECIES OF HUMMINGBIRD FROM PERU *John W. Fitzpatrick, David E. Willard and John W. Terborgh* 177

VOCAL REPERTOIRE AND ITS POSSIBLE EVOLUTION IN THE BLACK AND BLUE JAYS (*CISSILOPHA*) ..... *John William Hardy* 187

ECOLOGY AND BEHAVIOR OF THE GALAPAGOS RAIL *Alan B. Franklin, Deborah A. Clark and David B. Clark* 202

EXPERIMENTS ON POPULATION REGULATION IN TWO NORTH AMERICAN PARIDS *Fred B. Samson and Stephen J. Lewis* 222

HABITAT USE BY THE BLACKPOLL WARBLER ..... *Douglass H. Morse* 234

FORAGING ECOLOGY OF STRICKLAND'S WOODPECKER IN ARIZONA ..... *Hans Winkler* 244

THE ONTOGENY AND ORGANIZATION OF COMFORT BEHAVIOR IN ADÉLIE PENGUINS *Marc Bekoff, David G. Ainley and Anne Bekoff* 255

AGONISTIC BEHAVIOR IN SHORT-BILLED DOWITCHERS FEEDING ON A PATCHY RESOURCE *Elizabeth P. Mallory and David C. Schneider* 271

RELATIONS OF WINTERING CANVASBACKS TO ENVIRONMENTAL POLLUTANTS—CHESAPEAKE BAY, MARYLAND ..... *Donald H. White, Rey C. Stendell and Bernard M. Mulhern* 279

CHANGES IN OLDSQUAW CARCASS WEIGHT ..... *Steven R. Peterson and Robert S. Ellarson* 288

EFFECTS OF PINE-OAK CLEARCUTTING ON WINTER AND BREEDING BIRDS IN SOUTHWESTERN VIRGINIA ..... *Richard N. Conner, Jerry W. Via and Irvine D. Prather* 301

GENERAL NOTES

EXPERIMENTAL SYNCHRONIZATION OF SPARROW REPRODUCTION ..... *Ted R. Anderson* 317
SEXUAL DIFFERENCES IN FEEDING TERRITORIALITY OF THE CROWNED WOODNYMPH, *THALURANIA COLOMBICA* ..... *Robert I. Bertin and Peggy A. Wilzbach* 319
BROWN-HEADED COWBIRD PARASITISM ON EASTERN BLUEBIRDS *Paul W. Woodward and Joan C. Woodward* 321
INTERSPECIFIC USE OF SANDHILL CRANE NESTS ..... *Carroll D. Littlefield* 323
THE RED-WHISKERED BULBUL IN HAWAII *Charles van Riper, III, Sandra G. van Riper and Andrew J. Berger* 323
REMOVAL OF FUR FROM A LIVE RACCOON BY TUFTED TITMICE *Barbara K. Eshbaugh and W. Hardy Eshbaugh* 328

POMARINE JAEGER PREYS ON ADULT BLACK-LEGGED KITTIWAKE
George J. Divoky, Karen L. Oakley and Harriet R. Huber 329
BLACK-BILLED MAGPIE PREDATION OF A KILLDEER ..... *John T. Mundahl* 330
OPPORTUNISTIC FEEDING ON MAN-KILLED PREY BY FERRUGINOUS HAWKS
Ronald K. Chesser 330
MISIDENTIFIED "ESKIMO CURLEWS" ..... *Robert W. Storer* 331
THE ROLE OF PARENT AND HELPER RED-COCKADED WOODPECKERS AT THE NEST
Michael R. Lennartz and Richard F. Harlow 331
THREE-WEEK VS 4-WEEK NESTLING PERIODS IN *PICOIDES* AND OTHER WOODPECKERS
Lawrence Kilham 335
BREEDING ACTIVITIES OF WAVED WOODPECKERS IN SURINAM ..... *Patricia O'Brien* 338
DROWNING OF GRASSLAND BIRDS IN STOCK TANKS ..... *John D. Chilgren* 345

ORNITHOLOGICAL NEWS 347

ORNITHOLOGICAL LITERATURE 348

SUGGESTIONS TO AUTHORS 366

NUMBER 3

BLUE-WINGED × CINNAMON TEAL HYBRID FROM OKLAHOMA ..... *Eric G. Bolen* 367

AGGRESSIVE BEHAVIOR IN WINTERING DARK-EYED JUNCOS: DETERMINANTS OF DOMINANCE AND THEIR POSSIBLE RELATION TO GEOGRAPHIC VARIATION IN SEX RATIO
Ellen D. Ketterson 371

PHENETIC RELATIONSHIPS WITHIN THE FAMILY GRUIDAE ..... *D. Scott Wood* 384

INTERFERENCE COMPETITION AND NICHE SHIFTS IN THE BARK-FORAGING GUILD IN CENTRAL ILLINOIS ..... *Joseph B. Williams and George O. Batzli* 400

VARIATION IN SUMMER DIET OF GLAUCOUS-WINGED GULLS IN THE WESTERN ALEUTIAN ISLANDS: AN ECOLOGICAL INTERPRETATION ..... *John L. Trapp* 412

TIMING OF PRIMARY MOLT AND EGG-LAYING IN GLAUCOUS-WINGED GULLS
Nicholaas A. M. Verbeek 420

PREDATION ON RED-WINGED BLACKBIRD EGGS AND NESTLINGS ..... *Frank S. Shipley* 426

RESPONSE TO FOSTER NESTLINGS BY RED-WINGED BLACKBIRDS AT DIFFERENT REPRODUCTIVE STAGES ..... *Larry C. Holcomb* 434

NESTING ECOLOGY OF THE EASTERN PHOEBE IN SOUTHERN INDIANA .. *Harmon P. Weeks, Jr.* 441

GENERAL NOTES

AGE OF EFFECTIVE HOMEOTHERMY IN NESTLING TREE SWALLOWS ACCORDING TO BROOD SIZE ..... *Erica H. Dunn* 455
THE OILBIRDS OF LOS TAYOS ..... *Barbara K. Snow* 457
OBSERVATIONS ON THE NESTING BIOLOGY OF THE GREAT CORMORANT IN ETHIOPIA
Emil K. Urban 461
AMERICAN WOODCOCK HATCHED IN ALABAMA KILLED IN MICHIGAN
Keith Causey, George Horton, John Roboski, Randall Johnson, and Phillip Mason 463
GROWTH AND AGE DETERMINATION OF NESTLING BROWN-HEADED COWBIRDS
Thomas W. Scott 464
GROUND DOVE USE OF YOUNG PINE PLANTATIONS
J. Larry Landers and James L. Buckner 467
LOGGERHEAD SHRIKE EGGSHELL THICKNESS IN CALIFORNIA AND FLORIDA
Michael L. Morrison 468
FIRST SIGHT RECORDS OF LINCOLN'S SPARROW FOR COSTA RICA ..... *Elliot J. Tramer* 469

AN INCIDENT OF BLUE JAY PREDATION ON A HOUSE SPARROW ..... *Terry L. Master* 470
LONG-WINGED HARRIER PREDATION ON WATTLED JACANA EGGS
David R. Osborne and Steven R. Beissinger 470
ARBOREAL FORAGING BY CATTLE EGRETS ..... *James A. Kushlan* 471

ORNITHOLOGICAL LITERATURE 473

PRESIDENT'S MESSAGE 477

ORNITHOLOGICAL NEWS 477

PROCEEDINGS OF THE SIXTIETH ANNUAL MEETING 479

NUMBER 4

STATUS OF THE EVERGLADE KITE IN FLORIDA—1968–1978 ..... *Paul W. Sykes, Jr.* 495

RECENT WOOD STORK POPULATION TRENDS IN THE UNITED STATES
John C. Ogden and Stephen A. Nesbitt 512

DISPLAYS AND MORPHOLOGY OF AN ANNA × ALLEN HUMMINGBIRD HYBRID
Shirley Wells and Luis P. Baptista 524

SONG CHARACTERISTICS OF THE YELLOW WARBLER
Kenneth G. Bankwitz and William L. Thompson 533

VOCALIZATIONS AND BEHAVIOR OF THE WILLET ..... *Tex A. Sordahl* 551

SOME ASPECTS OF THE BREEDING BIOLOGY AND BEHAVIOR OF THE GREAT BLACK-BACKED GULL ..... *Nicolaas A. M. Verbeek* 575

TERRITORIALITY IN THE PURPLE MARTIN ..... *Charles R. Brown* 583

TEMPORAL VARIATION IN THE SELECTED HABITATS OF A GUILD OF GRASSLAND SPARROWS
Robert C. Whitmore 592

HABITAT USE BY NESTING AMERICAN COOTS IN SASKATCHEWAN PARKLANDS
Lawson G. Sugden 599

NESTING ECOLOGY OF ARCTIC LOONS ..... *Margaret R. Petersen* 608

GENERAL NOTES

EVIDENCE FOR VOCAL LEARNING IN PRAIRIE GROUSE ..... *Donald W. Sparling* 618
COMMON REDPOLLS USING SPRUCE SEEDS IN NORTHERN UTAH ..... *Kimberly G. Smith* 621
SMALL MAMMALS AND BIRDS AS FOOD ITEMS OF RING-BILLED GULLS ON THE LOWER GREAT LAKES ..... *Hans Blokpoel and Gerard T. Haymes* 623
PREMIGRATORY FAT IN THE AMERICAN KESTREL ..... *James A. Gessaman* 625
FIRST REPORTS OF PELLET EJECTION IN 11 SPECIES ..... *Theodore H. Below* 626
RUFOUS-COLLARED SPARROW VICTIMIZED BY BRONZED COWBIRD ..... *Amanda Villeda* 628
PROBABLE CANADA GOOSE × WHITE-FRONTED GOOSE HYBRIDS
Scott R. Craven and Ronald L. Westemeier 628
GREAT BLUE HERONS FORAGING FOR SMALL MAMMALS ..... *R. W. Peifer* 630

ORNITHOLOGICAL LITERATURE 632

ORNITHOLOGICAL NEWS 634

INDEX 636